

What is claimed is:

1. An insertion tool (12) for an angle grinder (2) that has a hub (16) with at least a first fastening means for fastening the hub (16) to a driving device (22) of the angle grinder (2),
wherein
the first fastening means is located on a partial circle (54) with a radius (56) between 12 mm and 25 mm.
2. The insertion tool (12) as recited in Claim 1,
wherein
the first fastening means has a circular cross section with a center point on a partial circle (54) with a radius (56) of 16.5 mm to 17.0 mm.
3. The insertion tool (12) as recited in Claim 1 or 2,
wherein
the first fastening means is configured as a pot-shaped recess (52) with an inner diameter (58) of 5.7 mm to 6.5 mm.
4. The insertion tool (12) as recited in one of the preceding Claims,
wherein
the first fastening means is configured as a pot-shaped recess (52) with an inner depth (60) over 3.5 mm to 4.5 mm.
5. The insertion tool (12) as recited in one of the preceding Claims,
characterized by
a second fastening means with a retaining region (62) formed by a first slot with a width of 3.5 mm to 4.5 mm, and a releasing region (66) with a width of 6.5 mm to 7.5 mm.
6. The insertion tool (12) as recited in Claim 5,
wherein
the second fastening means is formed by two slots that abut each other along part of their long sides.
7. The insertion tool (12) as recited in Claim 5 or 6,

wherein

the second fastening means has a region (70) formed by a second slot having a width of 2.5 mm to 4.5 mm.

8. The insertion tool (12) as recited in one of the Claims 5 through 7,
wherein

the second fastening means extends in the tangential direction (30) across an angular range (74) of 55° to 65°.

9. The insertion tool (12) as recited in one of the Claims 5 through 8,
wherein

the second fastening means is located in a well-shaped region with an inner well wall (88), and the second fastening means is located less than 3 mm from the inner well wall (88).

10. The insertion tool (12) as recited in one of the preceding Claims,
wherein

at least three third fastening means (20) – located on a second partial circle – for fastening an abrasive body (18) to the hub (16) extends, in entirety, outside the third fastening means (20) in the region of hub material.

11. A system composed of an insertion tool (12) with a hub (16) and a driving device (22) for an angle grinder (2), the hub (16) having at least a first fastening means, and the driving device (22) having at least a first fastening element for interacting with the first fastening means and for fastening the hub (16) to the driving device (22),
wherein

the first fastening means is located on a partial circle (54) with a radius (56) between 12 mm and 25 mm.

12. The system as recited in Claim 11,
wherein

the first fastening means has a pot-shaped recess (52) with an inner diameter (58) of 5.7 mm to 6.5 mm, and the first fastening element has a bolt shape with an outer diameter (94) that is more than 0.3 mm smaller than the inner diameter (58).

13. The system as recited in Claim 11 or 12,
wherein

the hub (16) includes a centering opening (26) capable of being inserted on a centering collar (24) of the driving device (22), the play between the centering opening (26) and centering collar (24) being less than the play between the fastening means and fastening element by a factor of at least 5, in particular at least by a factor of 10.

14. The system as recited in Claim 13,
wherein

the centering opening (26) has an inner radius (96) that is smaller than an outer radius (98) of the centering collar (24) by a maximum of 0.1 mm.

15. The system as recited in one of the Claims 11 to 14,
wherein

the first fastening element is made of a hardened steel, and the hub (16) is made of an unhardened metal in the region of the first fastening means.

16. The system as recited in one of the Claims 11 through 15,
wherein

the hub (16) is insertable on the driving device (22) and includes at least a second fastening means through which a second fastening element (40) of the driving device (22) is guidable, the second fastening means including a blocking element (76) that prevents the second fastening element (40) from being inserted when the hub (16) has been installed in a laterally-reversed manner.